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Agricultural Marketing Service

Plant Variety Protection Office Official Journal

Volume 15, No.4 October—December 1987





PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office
Agricultural Marketing Service
U.S. Department of Agriculture
National Agricultural Library Bldg., Rm. 500
Beltsville, Maryland 20705

CONTENTS

PAG	Œ
Applications Received October 1 through December 31, 1987	3
Certificates Issued, and Novelty Based on Applicant's Claim October 1 through December 31, 1987l	.1
Applications Amended October 1 through December 31, 19872	22
Certificates Amended October 1 through December 31, 19872	23
Applications Abandoned, Withdrawn, Denied, or Ineligible October 1 through December 31, 19872	24
Description of Public Varieties of Cucumber and Field Corn	25

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

NAME OF APPLICANT	Plant Genetics, Inc.	Plant Genetics, Inc.	Plant Genetics, Inc.	Pennsylvania Agricultural Experiment Station and USDA-ARS	Ferry-Vorse Seed Company	Ferry-Morse Seed Company
GEN. APPL.	10/30/87	10/30/87	10/30/87	(3) 12/16/87	10/22/87	11/09/87
VARLETY	Sutter	Madera	Maricopa	Perinco	Trueblue	Slenderella
APFL. NO.	ALFALFA 8800013	8800014	8800015	BARLEY 8800041	BEAN, GARDEN 8800011	8800019

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NAME OF APPLICANT	Ferry-Morse Seed Company	Ferry-Morse Seed Company	Seed Research of Oregon, Inc.	New Mexico Crop Improvement Association	Jacklin Seed Company	Jacklin Seed Company
GEN. APPL.	11/30/87	12/16/87	12/28/87	(3) 10/20/87	10/02/87	10/02/87
VARIETY	Flatbush	Shore	EEPING SR 1020	NuMex SAHARA	NIUCKY Huntsville	Liberty
APPL. NO.	BEAN, GARDEN 8800025	8800042	BENTGRASS, CREEPING 8800047 SR	BERMUDAGRASS 8800010	BLUEGRASS, KENTUCKY 8800006 Hun	8800007

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OCTOBER 1, 1987 TO DECEMBER 31, 1987 APPLICATIONS RECEIVED

Applications for protection have been filled for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

APPL. NO.	, VARLETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BLUESTEM, BIG 8800020 Ni	Niagara		Guy W. McKee, W. Curtis Sharpe, John Oyler
CORN, FIELD 8800001	PHK05	10/01/87	Pioneer Hi-Bred International, Inc.
8800002	PHR25	10/01/87	Pioneer Hi-Bred International, Inc.
8800003	PHV78	10/01/87	Pioneer Hi-Bred International, Inc.
8800028	740	12/10/87	Northrup King Co.
8800029	787	12/10/87	Northrup King Co.
8800030	790	12/10/87	Northrup King Co.

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NAME OF APPLICANT	Northrup King Co.	Northrup King Co.	Pioneer Hi-Bred International, Inc.					
GEN. APPL. (*) DATE	12/10/87	12/10/87	12/15/87	12/15/87	12/15/87	12/15/87	12/15/87	12/15/87
VARLETY	793	W8304	PHK42	PHK76	PHN11	PHT77	PHV63	PHW65
APPL. NO.	CORN, FIELD 8800031	8800032	8800035	8800036	8800037	8800038	8800039	8800040

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GEN. APPL. NAME OF APPLICANT (*) DATE	12/23/87 Pioneer Hi-Bred International, Inc.	(3) 11/03/87 C. Harvey Campbell, jr.; H. P Anderson, III; Kenneth L. Puryear; David L. West	12/29/87 Agrigenetics Corp. dba GroAgri Seed Company	10/02/87 Royal Sluis	10/14/87 Bruce Church, Inc.	11/17/87 Ferry-Morse Seed Company
VARIETY	PHT)55	Germain's Acala GC-356	GSC 30	Telda	Winter King	Salverde
APPL. NO.	CORN, FIELD 8800046	COTTON 8800017	8800048	LETTUCE 8800004	6000088	8800021

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NAME OF APPLICANT	Bruce Church, Inc.	Ferry-Morse Seed Company	Ferry-Morse Seed Company	Ferry-Morse Seed Campany	Pennsylvania Agricultural Experiment Station and USDA-ARS	Nickerson-Zwaan
GEN. APPL. (*) DATE	11/27/87	11/30/87	12/07/87	12/07/87	(3) 12/30/87	12/21/87
VARLETY	LaJolla	Fanfare	Bella	Garnet	Hercules	Granny-X
APPL. NO.	LETTUCE 8800022	8800023	8800026	8800027	OAT 8800049	ONION 8800044

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Protection Applied For."

Applications for protection have been filled for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

NAME OF APPLICANT	Nickerson-Zwaan	Pickseed West, Inc.	Cal/West Seeds	Jacob Hartz Seed Company, Inc.	Iowa Agriculture and Home Economics Experiment Station	
GEN. APPL. (*) DATE	12/21/87	11/30/87	10/30/87	10/13/87	11/05/87	
VARIETY	Everest	ennial Dasher II	C/W-4440	Hartz 6385	1.5301	
APPL. NO.	ONION 8800045	RYEGRASS, PERENNIAL 8800024 Dash	SAFFLOWER 8800016	SOYBEAN 8800008	8800018	

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< > Identifies temporary designations.

10

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."	NAME OF APPLICANT	Asgrow Seed Company	Coker's Pedigreed Seed Company	Pioneer Hi-Bred International, Inc.	Kansas Agricultural Experiment Station	Kansas Agricultural Experiment Station
	GEN. APPL. (*) DATE	12/18/87	10/02/87	10/29/87	(3) 12/15/87	(3) 12/15/87
	VARIETY	A3935	Coker 833	2375	Norkan	Dodge
Applications for prapplication number protection. Seed o Protection Applied	APPL. NO.	SOYBEAN 8800043	WHEAT, COMMON 8800005	8800012	8800033	8800034

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CERTIFICATES ISSUED, AND NOVELITY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OWNER	(2) 10/30/87 Nickerson American Plant Breeders, Inc. t 'GT-13R Plus' is resistant to spotted ance.	(2) 10/30/87 Minnesota Agricultural Experiment Station and USDA-ARS th habit and nitrogen production. However, ot rot and highly resistant to pea aphid,	10/30/87 Asgrow Seed Company Rocket' is 2 to 6 days later than locations and years.	12/18/87 National Seed Development Organisation, Ltd. Albion' has purple mottling in the
S	Nicker Inc. s' is re	Minnes Statio nitrogen ghly res	Asgrow is 2 to ns and y	Nation Organi has purp
ISSUE	10/30/87 13R Plu	10/30/87 bit and pix	10/30/87 Rocket':	12/18/87 Albion' 1
* (*)	(2) but 'GI istance.	(2) rowth ha	wever, ' multiple	wever, '
VARIETY	LFA 8500006 GT-13R Plus Inc. 'GT-13R Plus' is most similar to 'AS 13R', but 'GT-13R Plus' is resistant to spotted alfalfa aphid whereas 'AS 13R' has low resistance.	8700063 Nitro Station and USDA-ARS 'Nitro' is most similar to 'Moapa 69' in growth habit and nitrogen production. However, 'Nitro' is rated resistant to Phytophthora root rot and highly resistant to pea aphid, whereas 'Moapa 69' is susceptible to both.	', FIELD 8700153 Rocket 'Rocket' is most similar to 'Seafarer'; however, 'Rocket' is 2 to 6 days later than 'Seafarer' in maturity based on data from multiple locations and years.	8700154 Albion 12/18/87 National Seed Development Organisation, Ltd. Albion' is most similar to 'Seafarer'; however, 'Albion' has purple mottling in the mature pods whereas 'Seafarer' does not.
NO.	ALFALFA 8500006 'GI	8700063 'Ni Whe	BEAN, FIELD 8700153 'Roy 'See'	8700154 'AJ

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CERTIFICATES ISSUED, AND NOVELFY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

	anz
~	'B73'
OWNER	nces than
NAME OF OWNER	Seme
Ž	12/18/87 Claeys Semences nts are 47 cm shorter tha m the stalk).
된	1/87 (re 47 stal)
ISSUE	12/18 ants a am the
* (*	5' pla
	'Lp'
	ELD 12/18/87 Claeys Semences 12/18/87 Claeys Semences Lp5' is most similar to 'B73'; however, 'Lp5' plants are 47 cm shorter than 'B73' have a more open tassel (28 vs 19 degree angle from the stalk).
	3'; hc
	, 'B73 (28 v
	lar to
EIT	simi]
VARIETY	most ore o
	Lp5 5' is
CERT.	FIELD 3700031 Lp5 'Lp5' is have a m
J	CORN, FIELD 8700031 'LP hav
	-

g

e de la constante

(3) 12/18/87 Coker's Pedigreed Seed Company 'Ooker 139' most closely resembles 'Ooker 310'; however, 'Ooker 139' has a higher micronaire (4.10 vs 3.76) than 'Coker 310'. 8700070 Coker 139

FESCUE, CHEWINGS

'Victory' most closely resembles 'Shadow'; however, 'Victory' heads 3 to 4 days later than 10/30/87 Pickseed West, Inc. 8700003 Victory 'Shadow'.

FESCUE, HARD

10/30/87 NPI Seed Inc., Oregon Division Horticultural Society (RHS) Colour Chart 136B] whereas 'Scaldis' is gray-green (RHS Colour 'Serra' most closely resembles 'Scaldis'; however, 'Serra' is bright green [Royal 8700161 Serra

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OWNER	(3) 10/30/87 Barenbrug Holland B.V. owever, 'Barcrown' heads 8 days later and is	(3) 12/18/87 Barenbrug Holland B.V. wever, 'Barvetia' heads 4 days later than	(3) 12/18/87 Barenbrug Holland B.V. ed hair-grass, <u>Koeleria cristata</u> . 'Barkoel' ype.	(3) 10/30/87 Purdue University Agricultural Experiment Station	'Porter' heads 5 days later than white lemmas and is more tolerant lemmas which are yellow to red.
ISSUE	10/30, er, 'Bē	12/18, r, 'Baı	12/18, air–gre	10/30/	wever, r'has l'has
(*)	(3) howeve	(3) howeve	(3) sted h	(3)	Porte
CERT. VARIETY NO.	FESCUE, RED 8700028 Barcrown 'Barcrown' most closely resembles 'Dawson'; however, 'Barcrown' heads 8 days later and is shorter (64 vs 72 mm) than 'Dawson'.	FESCUE, TALL 8700071 Barvetia "Barvetia" most closely resembles 'Rebel'; however, 'Barvetia' heads 4 days later than 'Rebel'.	HAIR-GRASS, CRESTED 8700072 Barkoel 'Barkoel' is the first named variety of crested hair-grass, Koeleria cristata. 'Barkoel' is 4 cm shorter (43 vs 47 cm) than the wild type.	UAT. 8300063 Porter	'Porter' is most similar to 'Stout' and 'Dal'; however, 'Porter' heads 5 days later than 'Stout' and is 10 cm taller than 'Stout'. 'Porter' has white lemmas and is more tolerant of the barley yellow dwarf virus than 'Dal'. 'Dal' has lemmas which are yellow to red.

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OMNER	(3) 10/30/87 Minnesota Agricultural Experiment Station	'Proat' is most similar to 'Dal' except 'Proat' does not have stem rust resistance genes
ISSUE	10/30/87	ses not ha
GEN.	(3)	'Proat' de
		except
		'Dal
		ullar to
ARIETY		ost sim
VARI	Proat	is mc
CERT. NO.	8600074 F	'Proat
	OAT	

(3) 12/18/87 University of Florida Agricultural Experiment Station Southern Runner 8700093

Pg-2 (race 7) and Pg-4 ("A" races) which are present in 'Dal'. 'Proat' has a higher test weight (35.3 vs 34.1 lb/bu) but lower groat oil content (6.1 vs 8.2%) than 'Dal'.

later, has smaller seed (58 vs 64 g/100 seed), and has lighter testa color (tan vs pink) 'Southern Runner' is most like 'Florunner'; however, 'Southern Runner' matures 5-7 days than 'Florumer'. 'Southern Runner' is moderately resistant to late leafspot whereas 'Florunner' is susceptible.

8700094 KH20

habit, and 'KH20' has a semi-erect growth habit whereas 'Florunner' has a runner growth habit. profuse branching growth habit whereas 'Starr' and 'Spanco' have a sparse branching growth 'WH20' most closely resembles 'Starr', 'Spanco', and 'Florunner'; however, 'KH20' has a 12/18/87 Kenneth E. Hughes

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OWNER	
ISSUE	
GEN.	
VARLETY	
CERT.	

850008l Palaton REED CANARYGRASS

'Palaton' is most similar to 'Vantage'; however, 'Palaton' is lower in total alkaloid 12/18/87 Research Seeds, Inc. content and higher in palatability than 'Vantage'

8600060 Venture

12/18/87 Research Seeds, Inc.

Venture' is most similar to 'Palaton'; however, 'Venture' has a higher percentage of acid and neutral detergent fiber at the third cutting than 'Palaton' and the seed proteins of 'Venture' differ distinctly in structure from those of 'Palaton' when analyzed by acid urea polyacrylamide gel electrophoresis.

8700085 V4716

earlier than 'Lemont'

in plant height than 'Mars' (98 vs 108 cm) and 'Nato' (94 vs 133 cm), and ripens 4-8 days 'V4716' most closely resembles 'Mars', 'Nato', and 'Lemont'; however, 'V4716' is shorter 12/18/87 Farms of Texas Company

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CERTIFICATES ISSUED, AND NOVELFY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OWNER	10/30/87 International Seeds Inc. ver 'All*Star' has more tillers (436 vs.th coleoptile anthocyanin (11.4 vs
ISSUE	10/30/87 er 'All*g
GEN.	'Pennant'; howev age of plants wi
CERT, VARIETY NO.	RYEGRASS, PERENNIAL 8300059 All*Star 8311*Star most closely resembles 'Pennant'; however 'All*Star' has more tillers (436 vs 353/100 cm sq) and a lower percentage of plants with coleoptile anthocyanin (11.4 vs

10/30/87 NPI Seed Inc., Oregon Division 'Caliente' most closely resembles 'Premier'; however, 'Caliente' exhibits superior tolerance to heat and drought stress (50 vs 0% recovery) compared to 'Premier'. 8700064 Caliente

25.7%) than 'Pennant'.

'Regency' matures 2 or more days later, is 4.6 cm taller (85.8 vs 81.2 cm), and has 3.3 cm longer flag leaves (19.6 vs 16.3 cm) 10/30/87 Pure-Seed Testing, Inc. Regency' is most similar to 'Citation'; however, than 'Citation'. 8700133 Regency

2 days later than 'Omega II' and 6 days later than 'Citation II'. 'Commander' has a spike 'Commander' is most similar to 'Citation II' and 'Omega II'; however, 'Commander' matures 12/18/87 Pure-Seed Testing, Inc. length of 1.1 cm or more longer than 'Citation II' and 'Omega II'. 8700166 Commander

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ISSUE DATE VARIETY

NAME OF OWNER

RYEGRASS, PERENNIAL

8700169 Fiesta II

12/18/87 Pickseed West, Inc.

Fiesta II' most closely resembles 'Fiesta'; however, 'Fiesta II' heads 2 days earlier, is shorter in mature plant height (67 vs 78 cm), and has greater resistance to stem rust (moderately susceptible vs susceptible) than 'Fiesta'.

8700117 S-553

'S-553' most closely resembles 'Frio', 'S-400', and 'S-541'; however, 'S-553' is resistant 'S-400' has yellow flowers, and the seed color of 'S-553' is white with brown stripes to fusarium wilt whereas 'Frio' is susceptible. 'S-553' has orange flowers whereas whereas the seed color of 'S-541' is white with grey stripes.

SeedTec International, Inc.

12/18/87

8700118 S-555

whereas 'S-541' and 'S-400' have white-colored seed. 'S-555' has yellow flowers at bloom and at drydown whereas 'S-541' has yellow flowers at bloom and orange flowers at drydown. 'S-555' is most similar to 'S-400' and 'S-541'; however, 'S-555' has cream-colored seed 12/18/87 SeedTec International, Inc.

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OMNER	(*) 12/18/87 Montana Agricultural Experiment	Journal 17' is more resistant to 'S-208'.	
ISSUE	12/18/87	ole) than	
GEN.	*	however susceptil	
VARIETY	LOWER 8700187 MT 3697	'MT 3697' most closely researbles 'S-208'; however, 'MT 3697' is more resistant to Alternaria leafspot (2.8 vs 5.2 - 9=most susceptible) than 'S-208'.	
CERT.	SAFFIOWER 8700187	'MT Alte	CFCAME

'Sesaco 2A' most closely resembles 'Margo'; however, 'Sesaco 2A' forms no branches whereas Margo' does branch. The capsules of 'Sesaco 2A' are longer than those of 'Margo' 10/30/87 Sesaco Corporation 8500167 Sesaco 2A

'Sesaco 3' most closely resembles 'Sesaco 7'; however, 'Sesaco 3' has more capsules per 10/30/87 Sesaco Corporation leaf axil (3 vs 1 capsules) and matures 5 days earlier than 'Sesaco 7'. 8500168 Sesaco 3

Sesaco 4' is most similar to 'Sesaco 7'; however, 'Sesaco 4' has black seed whereas 10/30/87 Sesaco Corporation 'Sesaco 7' has buff-colored seed. 8500169 Sesaco 4

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NAME OF OWNER	10/30/87 Sesaco Corporation Sesaco 7' capsules are 'Sesaco 7' matures 8 days earlier (10
ISSUE	A - "
VARIETY GEN. (*)	8500170 Sesaco 7 'Sesaco 7' most closely resembles 'Eva'; however, shatter-resistant whereas those of 'Eva' shatter. vs 109) than 'Eva'.
CERT.	SESAME 8500170 'Se sha

C

SOYBEAN

'HS 321' most closely resembles 'Williams 79'; however, 'HS 321' plants are 13 cm taller 12/18/87 GROWMARK Inc. than 'Williams 79'. 8700038 HS 321

10/30/87 Pioneer Hi-Bred International, Inc. '9091' is most similar to '9061'; however, '9091' has tan pods and is susceptible to race 1 of Phytophthora megasperma whereas '9061' has brown pods and is resistant to race 1 of Phytophthora megasperma. 8700100 9091

10/30/87 Pioneer Hi-Bred International, Inc. activity whereas 'B152' has a low seed coat peroxidase activity. '9181' also has larger '9181' most closely resembles 'B152'; however, '9181' has a high seed coat peroxidase seed size than 'B152' by more than 400 seeds per pound. 8700101 9181

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NAME OF CHINER	10/30/87 Nickerson American Plant Breeders, Inc.	as white flowers and gray bescence.	12/18/87 Nickerson American Plant Breeders, Inc.	is resistant to races 1 and 2 of	12/18/87 Northrup King Co. Lowever, 'SO6-57' has purple flowers and whereas 'Evans' has white flowers and egasperma.
ISSUE	10/30/87	3132' } tawny pu	12/18/87	P 3773° xible.	12/18/87 IOWEVEr, Whereas
VARIETY GEN. (*)		'AP 3132' is most similar to 'Pella'; however, 'AP 3132' has white flowers and gray pubescence whereas 'Pella' has purple flowers and tawny pubescence.	8700109 AP 3773	'AP 3773' is most similar to 'Harper'; however, 'AP 3773' is resistant to races 1 and 2 of Phytophthora megasperma whereas 'Harper' is susceptible.	8700111 S06-57 'S06-57' is most similar to 'Evans' and 'Ozzie'; however, 'S06-57' has purple flowers and is resistant to race 3 of Phytophthora megasperma, whereas 'Evans' has white flowers and 'Ozzie' is susceptible to race 3 of Phytophthora megasperma.
CERT.	SOYBEAN 8700108	'AP pube	8700109	'AP Phyt	8700111 'SO6' is r 'Ozz

'S44-77' is most similar to 'Mitchell'; however, 'S44-77' is resistant to race 3 of

Phytopththora megasperma whereas 'Mitchell' is susceptible.

8700112 S44-77

12/18/87 Northrup King Co.

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CERTIFICATES ISSUED, AND NOVELITY BASED ON APPLICANT'S CLAIM OCTOBER 1, 1987 TO DECEMBER 31, 1987

NAME OF OWNER	12/18/87 Northrup King Co. 33-45' is resistant to races 1, 2, 3, and susceptible.	(*) 12/18/87 Louisiana Agricultural Experiment Station	d-N-Sweet' has dark brown, d-N-Sweet' also has more unsell Color Chart).
ISSUE	12/18/87 33—45' is susceptibl	12/18/87	, but 'Re seed. 'Re le 5/12, M
(*)	114 S33-45 'S33-45' is most similar to 'Harper'; however, 'S33-45' is resistant to races 1, 2, 3, and 7 of <u>Phytophthora megasperma</u> whereas 'Harper' is susceptible.	(*)	'Red-N-Sweet' is most similar to 'Louisiana Queen', but 'Red-N-Sweet' has dark brown, mottled seed whereas 'Louisiana Queen' has white seed. 'Red-N-Sweet' also has more intense red flesh color (7.5 r hue 4/16 v 2.5 r hue 5/12, Munsell Color Chart).
CERT. VARIETY NO.		RMELON 8700078 Red-N-Sweet	'Red-N-Sweet' is mottled seed wher intense red flesh
٦	SOYBEAN 8700	WATERMELON 8700078	

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Information concerning the varieties below has been published previously in the Official Journal's list of "APPLICATIONS RECEIVED." During the examination process, the applicant requested this information to be amended as indicated below.

NAME OF APPLICANT	Tainio Technology & Technique,
(*) DATE	(3) 03/31/80
VARIETY	Onda
APPL. NO.	BARLEY 8000083 Onda

Name of owner changed from Wilbur-Ellis Company to Tainio Technology & Technique, Inc.

28/80/90 8700149 Champ BEAN, GARDEN

Gallatin Valley Seed Co.

Variety name changed from 'Trophy' to 'Champ'.

Harris Moran Seed Company Variety with temporary designation <MOX 3097> named 'Murrieta II'. 12/02/85 8600032 MURRIETA II

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CERTIFICATES AMENDED OCTOBER 1, 1987 TO DECEMBER 31, 1987

The following certificates have been amended in accordance with sections 180,103, 180,122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

NAME OF OWNER	
GEN. ISSUE	
*	
VARIETY	
CERT.	N, FIELD
	BEAN

10/30/87 Asgrow Seed Company

Variety name changed from <XP-B185> to 'Rocket'.

Rocket

8700153

SUNFILOWER 8300132 SS405B

01/27/84 Northrup King Co.

Name of owner changed from Stauffer Chemical Co. to Northrup King Co.

^(*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE OCTOBER 1, 1987 TO DECEMBER 31, 1987

Variety Protection Act, varieties published in this list may possibly be protected under the Patent Applications for the varieties listed below are no longer being considered for U.S. plant variety protection. Although propagation of these varieties is no longer prohibited by the U.S. Plant

VARIETY	Brookston	Sela	PH210	9541
APPL. NO.	8400004	8700054	8700130	8500147
KTND	FESCUE, TALL	PEA	SORGHUM	SOYBEAN

< > Identifies temporary designations.

DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 180.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on PVP objective description forms will be accepted for publication in the Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as novel or entitles it to protection under the Plant Variety Protection Act.

The following are descriptions of varieties released in October 1987. The 2 cucumber varieties were developed and released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, North Carolina, and the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin. The 4 field corn varieties were released cooperatively by the USDA, ARS, and the North Carolina Agricultural Research Service.

The "PV Number" assigned to each variety should not be construed as meaning the variety is protected under the PVP Act; it is merely the accession number of that variety in the Office's databases of cucumber and corn variety descriptions.

Requests for seed samples and further information about these cultivars should be directed to Dr. William H. Johnson, Assistant Director, North Carolina Agricultural Research Service, P. O. Box 7601, Raleigh, NC 27695-7601.

Variety Name: 'Gy 4'

'Gy 4' is an inbred developed from the cross of 'Gy 14' with '19D4'. ('19D4' originated from the cross of 'Double Yield', SC 22, and SC 19B). The resulting progeny were selected for yield, gymoecy, disease resistance, and other horticultural characteristics while self-pollinating for 13 generations. 'Gy 4' has good combining ability for yield, making the hybrid 'Raleigh' when crossed to 'M 21'. 'Gy 4' was released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, N. C. and by the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin, in October 1987.

PV Number: 8710043

Breeders: T.C. Wehner, N.Car. ARS, and R.L. Lower, Wis. AES

Variety Name	'Gy 4'		
Туре	Pickling	Fruit Shape	Not necked
Culture	Outdoor	Mid X-Section	Triangular
Adapted	Southern U.S.A.	Fruit Skin	Thin, tender
Maturity	45 Days to harvest; 7 days	Fruit Ribbing	None
	before 'National Pickling'	Fruit Luster	Dull
Plant Habit	Vine	Spine Color	White
Plant Growth	Indeterminate	Spine Number	Few
Plant Sex	100% gynoecious	Spine Texture	Coarse
Flower color	Yellow	Fruit Warts	Many, large
Main Stem	165 cm long	Fruit Flavor	Bitter
	Grooved, ridged	Fruit at Seed Ha	rvest Stage:
Internodes	7 cm long	Fruit Size	17 cm long
Leaf Blade	110 mm long		6 cm dia.
	170 mm wide	Fruit Color	Cream, not
Leaf Petiole	16 cm long		striped
Fruit at Fresh	Market Stage:	Fruit Surface	Smooth
Fruit Size	15 cm long	Fruit Netting	Slight
	5 cm diameter	Fruit Set	With seeds
	180 g weight	No. Seeds/Fruit	150
Fruit Color	Medium green with yellow mottling & stripes	Seed Weight	28 g/1000

<u>Plant Diseases</u>: Resistant to Angular Leaf Spot, Anthracnose (races 1 & 2), Cucumber Scab, Powdery Mildew, Downy Mildew, Cucumber Mosaic Virus, and Fusarium Wilt.

VOLUNTARY CUCUMBER DESCRIPTION

Variety Name: 'Gy 5'

PV Number: 8710044

'Gy 5' is an inbred developed from the cross of 'Gy 3' with 'P 59'. After crossing with 'SC 791', the resulting progeny were selected for yield, gynoecy, disease resistance, and other horticultural characteristics while self-pollinating for 8 generations. 'Gy 5' makes the hybrid 'Johnston' when crossed to 'M 21'. 'Gy 5' was released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, N. C. and by the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin, in October 1987.

Breeders:	T.C.	Wehner.	N.Car.	ARS.	and R.L	 Lower 	Wis.	AES

Variety Name Type Culture Adapted Maturity Plant Habit Plant Growth Plant Sex Flower color Main Stem Internodes Leaf Blade Leaf Petiole Fruit at Fresh	'Gy 5' Pickling Outdoor Southern U.S.A. 45 Days to harvest; 7 days before 'National Pickling' Vine Indeterminate 100% gynoecious Yellow 130 cm long Grooved, ridged 8 cm long 105 mm long 135 mm wide 13 cm long Market Stage:	Fruit Shape Mid X-Section Fruit Skin Fruit Ribbing Fruit Luster Spine Color Spine Number Ribbing Fruit Warts Fruit Flavor Fruit at Seed Hafruit Size Fruit Color Fruit Surface	Ends Blunt, Not necked Triangular Thin, soft None Dull White Few None Many, large Bitter rvest Stage: 17 cm long 6 cm dia. Cream, not striped Smooth
Fruit Size	15 cm long	Fruit Netting	Slight
Fruit Color	5 cm diameter 185 g weight Medium green with yellow mottling & stripes	Fruit Set No. Seeds/Fruit Seed Weight	With Seeds 160 28 g/1000

Plant Diseases: Resistant to Angular Leaf Spot, Anthracnose (races 1 & 2), Cucumber Scab, Powdery Mildew, Downy Mildew, Cucumber Mosaic Virus, and Fusarium Wilt.

Variety Name: 'NC266' PV Number: 8710447

'NC266' was derived from 3387-2(82), an S4 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina for resistance to Gray Leaf Spot in 1985. Yield trials were conducted in 1984-86 in North Carolina. 'NC266' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)

Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Fresh Ear Length	10 cm
Adapted Area	SE USA	Fresh Ear Diameter	29 mm
Chramosame No.	Diploid	Fresh Ear Weight	32 g
Days to Mid Silk	72	No. Kernel Rows/Ear	12
Heat Units to		Row Distinctness	Distinct
Mid Silk	1659	Row Straightness	Straight
Plant Height	172 cm	Exposed Silk Color	Green
Ear Height	68 cm	Fresh Husk Color	Light Green
Internode Lgth	8 cm	Dry Husk Color	Buff
Tillers/Plant	None	Husk Extension	
Ears/Plant	Strong 2	beyond Ear	8-10 cm
Cytoplasm Type	Normal	Husk Leaf Length	>15 cm
Leaf Color	Medium green	Ear Shank Length	8 cm
Leaf Angle	<30 degrees	No. Shank Internodes	8
Leaf Sheath		Dry Ear Position	Upright
Pubescence	Light	Ear Taper	Average
Leaf Marginal		Ear Drying Time	Average
Waves	Few	Dry Kernel Length	9 mm
Leaf Creases	None	Dry Kernel Width	6 mm
Leaf Width	8 cm	Dry Kernel Thickness	5 mm
Leaf Length	76 cm	Kernel Shape Grade	<20% Rounds
Lf. No./Plant	17	Pericarp Color	Colorless
Tassel Branch		Aleurone Color	Tan
No./Plant	10	Endosperm Color	Yellow
Tassel Branch		Endosperm Type	Normal Starch
Angle	>45 Degrees	Seed Weight	22 g/100
Peduncle Lgth	9 cm	Cob Midpoint Dia.	24 mm
Pollen Shed	Medium	Cob Strength	Strong
Anther Color	Purple	Cob Color	Pink
Glume Color	Green		

Plant Diseases: Resistant to Southern Leaf Blight, Common Smut, and Gray Leaf Spot.

Pollen Shed

Anther Color

Glume Color

Medium

Pink

Green

Variety Name: 'NC268' PV Number: 8710448

'NC268' was derived from 2073-1(83), an S5 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina in 1985 for resistance to Gray Leaf Spot. Yield trials were conducted in 1984-86 in North Carolina. 'NC268' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)

Dr. M. M. Goodman (NCSU Professor, Crop Science)

Dent. Fresh Ear Length 15 cm Kernel Type Fresh Ear Diameter Adapted Area SE USA 35 mm Diploid Chramosame No. Fresh Ear Weight 61 g Days to Mid Silk 72 No. Kernel Rows/Ear 12 Heat Units to Row Distinctness Distinct Mid Silk 1664 Row Straightness Straight Plant Height 203 cm Exposed Silk Color Green Ear Height 68 cm Fresh Husk Color Light Green Internode Lgth Dry Husk Color Buff Tillers/Plant None Husk Extension Ears/Plant Slight 2 beyond Ear Barely Cytoplasm Type Normal Husk Leaf Length >15 cm Medium green Ear Shank Length 10 cm Leaf Color Leaf Angle 30-60 degrees No. Shank Internodes 11 Leaf Sheath Dry Ear Position Upright Pubescence Far Taper Slight Ear Drying Time Leaf Marginal Average Waves Few Dry Kernel Length 10 mm Leaf Creases Dry Kernel Width 8 mm Leaf Width 9 cm Dry Kernel thickness 4 mm 69 cm Leaf Length Kernel Shape Grade <20% Rounds Lf. No./Plant 17 Pericarp Color Colorless Tassel Branch Aleurone Color White No./Plant 8 Endosperm Color Yellow Tassel Branch Endosperm Type Normal Starch 30-40 Degrees Seed Weight 18 g/100 Angle Peduncle Lgth 22 cm Cob Midpoint Dia. 19 mm

<u>Plant Diseases</u>: Resistant to Southern Leaf Blight, Common Smut, and Gray Leaf Spot.

Cob Strength

Cob Color

Strong

Pink

Flint

Variety Name: 'NC270' PV Number: 8710449
'NC270' was derived from 2056-1(83), an S6 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina in 1985 for resistance to Gray Leaf Spot. Yield trials were conducted in 1984-86 in North Carolina. 'NC270' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987. Dr. Donald L. Thompson (USDA/Retired) Breeders: Dr. M. M. Goodman (NCSU Professor, Crop Science)

Fresh Ear Length 14 cm

Adapted Area SE USA Fresh Ear Diameter 40 mm Chromosome No. Diploid Fresh Ear Weight 52 g Days to Mid Silk 71 No. Kernel Rows/Ear 14 No. Exposed Silk Color Mid Silk 1614 Row Straightness Straight Plant Height 165 cm Exposed Silk Color Green Ear Height 60 cm Fresh Husk Color Dark Green Internode Light 9 cm Dry Husk Color Dark Green Internode Light None Dry Husk Color Dark Green Dry Kernel Length 11 cm No. Shank Internodes 7 Dry Ear Position Upright Ear Drying Time Average Dry Kernel Length 9 mm Dry Kernel Length 9 mm Dry Kernel Length 9 mm Dry Kernel Width 6 mm Dry Kernel Width 6 mm Dry Kernel Width 6 mm Dry Kernel Thickness 3 mm Leaf Length 12 Pericarp Color Colorless Aleurone Color Brown No./Plant 7 Endosperm Color Pale Yell Thickness Seed Weight 18 g/100 Peduncle Light 6 cm Cob Midpoint Dia. 27 mm	
Days to Mid Silk 71 Heat Units to Mid Silk Plant Height Plant Husk Color Park Green Presh Husk Leaf Length Plant Husk Leaf Length Presh Husk Color Park Green Park Green Park Green Park Green Park Freen Plant Husk Leaf Length Plant Husk Leaf Length Plant Husk Leaf Length Plant Paper Slight Ear Drying Time Average Presh Husk Color Park Green Presh Husk Color Park Green	
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Mid Silk 1614 Row Straightness Straight Plant Height 165 cm Exposed Silk Color Green Ear Height 60 cm Fresh Husk Color Buff Internode Ligh 9 cm Dry Husk Color Buff Tillers/Plant None Husk Extension Ears/Plant One beyond Ear 8-10 cm Cytoplasm Type Normal Husk Leaf Length >15 cm Leaf Color Medium green Ear Shank Length 11 cm Leaf Angle 30-60 degrees No. Shank Internodes 7 Pubescence Light Ear Taper Slight Pubescence Light Ear Taper Slight Leaf Marginal Ear Drying Time Average Waves None Dry Kernel Length 9 mm Leaf Creases None Dry Kernel Width 6 cm Leaf Width 6 cm Dry Kernel Thickness 3 mm Leaf Length 60 cm Kernel Shape Grade <20% Roun Lef. No./Plant 12 Pericarp Color Colorless Tassel Branch No./Plant 7 Endosperm Color Pale Yell Tassel Branch Sangle <30 degrees Seed Weight 18 g/100	
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Angle <30 degrees Seed Weight 18 g/100	
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Dodumala Lath 6 am Cab Midmaint Dia 27 mm	
<u> </u>	
Pollen Shed Medium Cob Strength Strong	
Anther Color Purple Cob Color Red	
Glume Color Green	

Leaf Spot.

Kernel Type

Plant Diseases: Resistant to Southern Leaf Blight, Common Smut, and Gray

Glume Color

Variety Name: 'NC272' PV Number: 8710450

'NC272' was derived from 2177-1(83), an S5 line developed by backcrossing an early B73 line, 'B73G' twice to ETO 'Blanco'. ETO 'Blanco' is a broad-based synthetic of mostly Caribbean origin. 'NC272' was released cooperatively by the USDA, ARS and the North Carolina ARS in October, 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)
Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type Dent. Fresh Ear Length 12 cm Adapted Area SE USA Fresh Ear Diameter 43 mm Diploid Fresh Ear Weight 89 q Chramosame No. Days to Mid Silk 73 No. Kernel Rows/Ear 18 Heat Units to Row Distinctness Distinct Row Straightness Mid Silk 1714 Straight 173 cm Exposed Silk Color Plant Height Green 63 cm Light Green Ear Height Fresh Husk Color Internode Lgth 11 cm Dry Husk Color Buff Tillers/Plant None Husk Extension Ears/Plant Slight 2 beyond Ear Barely Husk Leaf Length >15 cm Cytoplasm Type Normal Leaf Color Light green Ear Shank Length 8 cm Leaf Angle 30-60 degrees No. Shank Internodes 11 Leaf Sheath Dry Ear Position Upright Ear Taper Pubescence Slight Ear Drying Time Leaf Marginal Average Dry Kernel Length Waves None 11 mm Leaf Creases Dry Kernel Width 6 mm Leaf Width 8 cm Dry Kernel thickness 4 mm 76 cm <20% Rounds Leaf Length Kernel Shape Grade Lf. No./Plant 15 Pericarp Color Colorless Tassel Branch Aleurone Color White 7 Yellow No./Plant Endosperm Color Normal Starch Tassel Branch Endosperm Type 30-40 Degrees Seed Weight 20 q/100 Angle Peduncle Lgth 6 cm Cob Midpoint Dia. 26 mm Pollen Shed Medium Cob Strength Weak Anther Color Cob Color Red

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
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